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TITLE : PRETREATMENT IN PAINTING POLYOLEFINE POWDER

ABSTRACT : PURPOSE: To enhance heat resistance of a calcium codified zinc phosphate film and close adhesiveness of a polyolefine coating by treating said film with an aqueous solution with a specific composition containing each ions of Ca, Zn, Fe, phosphoric acid and nitric acid.

CONSTITUTION: This treating liquid applied to a surface of iron or steel cleaned by degreasing, pickling or the like. Said treating liquid contains, in the %w/v basis, 0.4~2.0% Ca ion, 0.2~1.5% Zn ion, 0.001~0.5% Fe ion, 0.4~10% PO₄ ion and 1~10% NO₃ ion as essential components. Further, a wt.ration of Ca ion/Zn ion is 1.0~3.5 and a wt.ratio of NO₃ ion/PO₄ ion is 0.5~10. By using said treating aqueous solution, a calcium modified zinc phosphate film is formed on a surface of iron or steel and used as an painting undercoat for painting a polyolefine powdery resin on an upper layer thereof by a heat fusing method.

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